

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re the Application of:

**Jian WANG et al.**

Serial No.: TBA

Filed: December 12, 2003

For: MULTI-MODAL HANDWRITING  
RECOGNITION CORRECTION

Atty. Docket No.: 003797.00672

Group Art Unit: Unknown

Examiner: Unknown

Confirmation No.: Unknown

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with Applicants' duty of disclosure, the following information is submitted for consideration by the United States Patent and Trademark Office in connection with the above-captioned application. The information is identified on the attached PTO 1449 form.

Applicants would also like to bring to the attention of the Examiner, the following co-pending related applications (copies of applications as filed are attached):

- U.S. serial no. 10/207,133, filed July 30, 2002, to Iwema et al., "Correcting Recognition Results Associated with User Input;"
- U.S. serial no. 10/725,604, filed December 3, 2003, to Wecker et al., "Scaled Text Replacement of Ink;" and
- U.S. serial no. 10/174,491, filed June 17, 2002, to Garside et al., "Integration of Speech and Stylus Input to Provide an Efficient Natural Input Experience."

In accordance with the waiver of the requirement under 37 C.F.R. § 1.98(a)(2)(i) set forth in the OG Notice dated August 5, 2003, Applicants are providing copies of foreign patent and non-patent literature documents only.

Applicants do not waive any right to take appropriate action to establish patentability over the listed documents should they be applied as references against the claims of the present application.

It is respectfully requested that the Examiner fully consider each of the documents, initial the enclosed Form PTO-1449 in the appropriate place to indicate that the document has been

considered, and return a copy of the initialed form to the undersigned in accordance with MPEP Section 609.

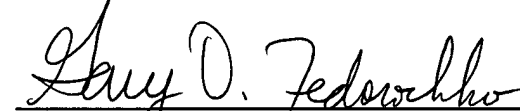
Applicants believe that no fee is necessary pursuant to 37 C.F.R. § 1.97(b). However, if a fee is due, the Office is authorized to charge Deposit Account No. 19-0733.

Respectfully submitted,

BANNER & WITCOFF, LTD.

Dated: December 15, 2003

By:

A handwritten signature in dark ink, appearing to read "Gary D. Fedorochko", is written over a horizontal line.

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PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 1

### Complete if Known

Application Number	TBA
Filing Date	December 12, 2003
First Named Inventor	Jian WANG et al.
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	003797.00672

### U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
		5,517,578		Altman et al.	05-14-1996	
		5,590,257		Forcier	12-31-1996	
		6,285,785	B1	Bellegarda et al.	09-04-2001	
		2003/0189603	A1	Goyal et al.	10-09-2003	
		2003/0212961	A1	Soin et al.	11-13-2003	

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sub>6</sub>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				

### OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		H. Bandoh et al., "User Interfaces for Correcting Errors in Writing-box-free Recognition of Handwritten Text," Transactions of the Information Processing Society of Japan, Vol. 43, No. 6, June 2002, pp. 1996-2005 (English Abstract only)	
		Z. Trabelsi et al., "A Voice and Ink XML Multimodal Architecture for Mobile e-Commerce Systems," WMC '02, September 28, 2002, Atlanta, GA, pp. 110-104	
		B. Suhm et al., "Multimodal Error Correction for Speech User Interfaces," ACM Trans Computer-Human Interaction, Vol. 8, No. 1, March 2001, pp. 60-98	
		B. Suhm et al., "Model-Based and Empirical Evaluation of Multimodal Interactive Error Correction," CHI '99 Pittsburgh, PA, May 15-20, 1999, pp. 584-591	
		K. Kukich, "Techniques for Automatically Correcting Words in Text," ACM Computing Surveys, Vol. 24, No. 4, December 1992, pp 377-439	
		M. Grasso et al., "The Integrality of Speech in Multimodal Interfaces," ACM Trans on Computer-Human Interaction, Vol. 5, No. 4, December 1998, pp. 303-325	
		M. Baran, "Rough Gems: First Pen Systems Show Promise, Lack Refinement," BYTE, April 1992, pp. 212-222	
		R. Zhao et al., "Pen-based Interfaces in Engineering Environments," Symbiosis of Human and Artifact, 1995, pp. 531-536	
		C. Leedham, "Historical Perspectives of Handwriting Recognition Systems," The Institution of Electrical Engineers, 1994, pp. 1-3	

Examiner Signature		Date Considered	
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<sup>1</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.